

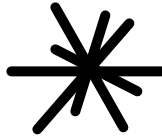
SINCE 1972

Leveraging a Knowledge Base Out of Testing into Training

Mr. Michael Schuck
Director

An OSD Chartered Joint Center of Excellence
for Countermeasure Warfare

SOME (VERY FEW) THOUGHTS

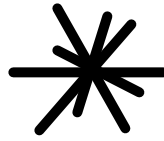


PGW CM T&E Directorate



- OTD's Mission
- Some Background and Observations
- Jet Jock City
- (Un)Troubled Training in the Desert
- Hope for the Future

OTD IS AN ...

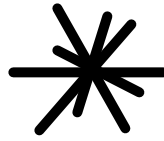


PGW CM T&E Directorate



"...OSD-sponsored organization that provides independent Countermeasures (CM)/Counter-countermeasures (CCM) analysis, testing, and evaluation of US and foreign Precision Guided Weapons (PGW) to the entire DoD community."

OTD OBSERVATIONS

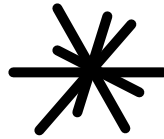


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- Most war fighting exercises and demonstrations occur in CM benign environments
- No focal point in war fighting HQ and crisis action centers for CM warfare (possible JOPES addition)
- Insufficient realistic CM performance data feeding war fighting simulations
- CM assessments of PGWs made during the acquisition cycle do not get to the war fighter

OTD OBSERVATIONS (cont)

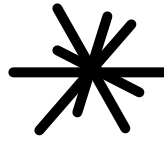


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- Continued CM evaluations not being made on current inventory PGW as CM technology matures.
- The technical expertise to independently assess the impact of CMs on PGWs not found in uniformed force structure.
- Camouflage, Concealment, and Deception (CCD) technology and decoys may have been used in Kosovo
- US forces and PGW have not been subjected to active CM techniques by opposing forces

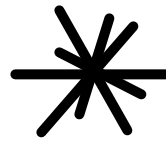
RESULT



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Decided we had to infiltrate Warfighter territory mostly untrammelled by test organizations like OTD -- It might be a way to leverage our knowledge base in ways previously unexplored.



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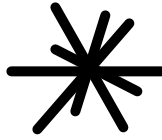
JET JOCK CITY



Air to Ground Weapon System Evaluation Program (A/G WSEP)

- **Sponsored by Air Warfare Center (79th TEG)**
- **Exercises using AGM-65D IR Mavericks and Laser Guided Bombs (LGB)**
- **Crews from active squadrons worldwide**
- **Bombs ! Missiles !**

HISTORY

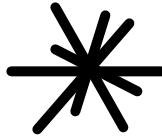


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- Briefed Commander ACC early 1993
- Agreed to provide CM for Tactical Crew Training
- Multiple deployments since
- Much learned on both sides

TEST ACTIVITY

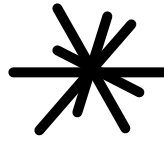


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- Eglin AFB, FL using LGBs, Jul 93
- Eglin AFB, FL using IR Mavericks, Aug 93
- Eglin AFB, FL using IR Mavericks, Feb 94
- UTTR, UT using LGBs, Jul 95
- UTTR, UT using LGBs, Jul 96
- UTTR, UT using LGBs, Jul 97

WHAT HAPPENED

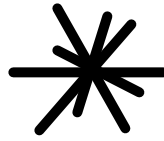


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- Found Fighter Community generally “unaware” false target CMs existed for LGBs
- Adapted tactics to range and designate on different codes
- Exercises and maintains equipment capability

BACKGROUND

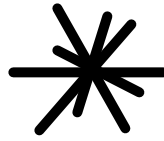


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- The purpose of Joint training exercises is to "Train the way we fight"
- In Roving Sands 99 we observed a Hind helicopter over-fly a Patriot missile site
 - The Patriot site did not respond
 - Is this the way we would fight in a real war?
- Countermeasures not part of a comprehensive training program

OTD PROPOSAL



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- Provide the OPFOR CM training
- Defend small number of selected high-value OPFOR targets with EO/IR CMs against COALITION Precision Engagement operations:
 - Air Defense Assets
 - C3I Assets
 - Theater Missile Assets
 - Air Bases
 - Armored Vehicles & Aircraft

OTD PROPOSAL DETAILS

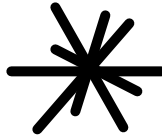


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- **Develop Tactical Decision Aids**
 - Based on actual test data
 - For use by the JECG in assessing CM effectiveness.
- **Deploy actual CMs to exercise**
 - Coalition intelligence collection and assessment capabilities
 - Joint targeting strike option decisions.

EO/IR CM/CCM



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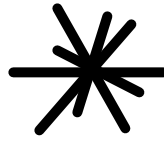
- **OTD provides:**
 - **Laser jammers (false target generators)**
 - **Decoys - tanks, aircraft**
 - **Smoke**
 - **Fog**
 - **Pyrotechnics**
 - **Personnel to operate the equipment**

CONOPS



- OPFOR will deploy and direct the CM team
- OPFOR will select assets to be protected
- OPFOR and OTD will design the CM protection against precision strike attack
- OPFOR and OTD will provide direct instructions to the CM team.

CONOPS (cont)



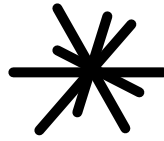
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The EO/IR CM team will:

- **Detect the precision strike**
- **Provide an electronic cue or message transmission**
- **Coordinate via the tactical voice networks**

TRAINING

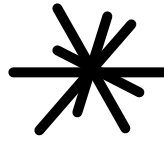


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- **Train OPFOR commanders and operators in the fundamentals of countermeasures**
 - CM in protection of their own forces
 - CM used to protect adversary forces
- **Training to take place under field conditions**

SUMMARY

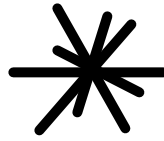


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- **Take EO/IR CM out of the closet and into the hands of the Warfighter.**
- **Train the Warfighter in the art and science of CM by adding realistic environments to Joint operational exercises and simulations.**
- **Train the Warfighter the way he/she will have to fight in future conflicts.**

HOPE FOR THE FUTURE



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“ . . . A (small) way of providing the War Fighting CINC's crucial access to 27+ years of countermeasures expertise. . . ”